

HORVATH, Janos

I.Cooperative phenomena. Fiz szemle 10 no.9:282-288 9 '61.

1. Szegedi Tudományegyetem Elméleti Fizikai Intézete, és "Fizikai Szemle" szerkeszto bizottsagi tagja.

HORVATH, J.

New data on the occurrence of potato viruses with special regard to complex infections. Acta agronom Hung 12 no.1/2:67-81 '63.

1. Laboratorium des Forschungsinstituts für Pflanzenschutz, Keszthely.

HORVATH, J. 1947

(Hungarian Biological Resch. Inst. Tihany)

"The Question of the Equality of Somatic and Germ Nuclei in Respect to Heredity and Survival on the Basis of Study in a Soil Protozoon."

Acta Biologica Hungarica, 1947, 17(193-201)
Abst: in Enc. Med. 1, Vol. 111, No. 3, p. 92

CA

Microbiological oxidation of cholesterol with Azotobacter. J. Ilgyath and A. Kráml (Hungarian Biol. Research Inst., Tihany). *Nature* 160, 639(1947).

Cholesterol was dispersed in a culture medium of sucrose, and the mixt. sterilized and added to a culture of an unidentified species of *Azotobacter*. After 14 days' fermentation the mixt. was hydrolyzed with dil. alkali and then extrd. with benzene. From the residue of the ext. unchanged cholesterol and methylheptanone (from side-chain splitting) were obtained. Cholestenone (as the semicarbazone) and 7-dehydrocholesterol (by chromatographic absorption) were also isolated. An unidentified species of *Proctonomyces* (cf. Puritt, C.A. 40, 4105⁹) formed cholestenone less successfully than the *Azotobacter*.
Carter D. Johnston

ASAC 55 A RETAILING LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

CA / Microbiology

11 C

The microbiological transformation of sterols. I. The oxidation of cholesterol by *Azotobacter*. János Horváth and András Krámlí. *Archiv Biol. Hung.* 18, 19-24 (1948); cf. C.A. 42, 1986i. — *A. oxydans* was isolated from compost. This anaerobe decomposed cholesterol to cholesterolone and to 7-dehydrocholesterol in 14 days at 34°. Higher aliphatic aldehydes and ketones could be detected among the decomposition products, which seems to prove that the side chain was also split. István Finály

HORVATH, J. 1948

(Hung Biol. Res. Inst., Tihany)

"Microbiological Oxidation of Sterols"

Nature, 1948, 162/4120 (619)
No abst. in Exc. Med.

CA 117

Histamine treatment and *Streptococcus pneumoniae* morbidity in the guinea pig. A. B. L. Besnik, J. Horvath, and A. G. B. Kovach (Hungarian Biol. Research Inst., Tihany, Lake Balaton). *Arch. intern. pharmacodynamie* 81, 147-58 (1950).—Guinea pigs treated for several weeks with small doses of histamine showed lung changes, including increased mucus secretion. These animals and a control group were injected with *Streptococcus pneumoniae*. Neither group developed pneumonia. Both groups became septicemic, with identical symptoms, but the histamine group resisted a larger dose of bacteria than the control group. M. L. C. Bernheim

HORVATH, J. & L.

BW

(4)

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Soils and Fertilizers

Relation between antibiotic properties of species of *Streptomyces* and their soils. J. Horvath, J. Szabolcsi, and L. Felkoldy (Biol. Inst. Hung. Acad. Sci., Tibany, Hungary). *Acta Biol. Acad. Sci. Hung.* 4, 453-70 (1953) (in English).—Expts. were performed to det. the possibility of correlating the chem. and phys. properties (or the flora) of soils with the antagonism of *Streptomyces* (1) to *Micrococcus pyrogenes* var. *aureus*, *Bacillus subtilis*, and *Escherichia coli* found in each. No such correlation was found. A dextrose-casein (pH 6.5) culture medium was used for the antibiotic tests. A table lists pH (4.5-7.3 range), salt concn. (conductometric method), carbonate content, org. C (from which humus content is calcd.), N (Kjeldahl method), Ca, Na, K, and P content for soils of 10 habitats. Too much elution, by ground water or pptn., appears to produce soils whose I are not antibiotic. In soils rated as less than 25-30 years of age no antibiotic strains of any kind could be found.
T. Lloyd Fletcher

HORVATH, J.

"The reactionary gene theory in microbiology." p. 465. (Termeszeti es Technika, Vol. 112, no. 8, Aug 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

HORVATH, János

Contribution to the biology of quantitative changes in antibiotic production based upon investigation of a Streptomyces species.
Acta microb. hung. 1 no.1-3:131-140 1954.

1. Biological Research Institute of the Hungarian Academy of Sciences, Department of Microbiology, Tihany; received July 31, 1954.

(STREPTOMYCES

antibiotic prod., eff. of refrigeration & ultraviolet irradiation)

(ULTRAVIOLET RAYS, eff.

on antibiotic prod. by Streptomyces species)

(REFRIGERATION, eff.

on antibiotic prod. by Streptomyces species)

HORVATH, J.; MARTON, M.; OROSZLAN, I.

Vegetative studies of hybridization in Streptomyces. Acta microb.
hung. 2 no.1-2:21-37 1954.

1. Biologisches Forschungsinstitut der Ungarischen Akademie der
Wissenschaften Tihany, und Mikrobiologischer Lehrstuhl der
Agrarwissenschaftlichen Universität, Godollo.

CHAIR of Microbiology

(STREPTOMYCES

hybridization)

(HYBRIDITY

hybridisation of Streptomyces)

EXCERPTA MEDICA Sec. 4 Vol. 9/8 Microbiology, etc. Aug 56

1914 HORVATH J. Lehrstuhl für Mikrobiol., Agrarwissenschaftl. Univ.,
Gösch. "Apparat zur Verbesserung der Agarscheibentestmethode. A new
apparatus for the simplification of the agar disc method."
ACTA MICROBIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 3/1-2
(219-223) Germ. J.

The agar disc method recommended by Raper for the detection of antibiotic produc-
tion and the determination of antibacterial effects has the disadvantage that cutting
out a part of the agar disc and transferring them to the other plates is somewhat
difficult. The small apparatus constructed by the author eliminates these difficulties.
A picture of the apparatus is given and details of use are described.

~~ties. A picture of the apparatus is given and details of use are described.~~

Forest - Budapest

XUNIV. of HKI. SCI, 7-03/10. R

HORVATH, J.

HORVATH, J. Apparatus for improvement of the agar disc method. In German. p. 219.
Obituary for Daniel feher. In German. p. 225.

Vol. 3, No. 1/2, 1955

ACTA MICROBIOLOGICA

SCIENCE

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

HORVATH, J.

New contributions to permanent heterokaryosis of streptomyces. Acta
microb. hung. 6 no.3:209-215 1959.

1. University of Agricultural Science, Microbiological Department,
Godollo. Acta microb. hung. 6 no.3:209-215 1959.
(STREPTOMYCES)

HORVATH, J.; BUDAY, F.

On the effect of Streptomyces aureofaciens cultures on antibiotic-producing capacity of various Streptomyces species. Acta microb. hung. 6 no.3:227-232 1959.

^{DEPT.}
1. Institut für Mikrobiologie der Agrarwissenschaftlichen Universität,
Godollo.

(STREPTOMYCES)

HORVATH, Janos, Dr., tanszekvezeto (Godollo, Agrartudományi Egyetem)

Investigation of heterokaryosis and its relation with recombination
in streptomyces. Biol kozl 9 no.1:25-39 '61.

1. Agrartudományi Egyetem, Mikrobiológiai Tanszek, Godollo.

HORVATH, J.

Recombination in streptomyces of heterokaryotic origin. Acta
microbiol. Hung. 9 no.2:189-195 '62.

1. Institute of Microbiology (Director: J. Horvath) University of
Agricultural Sciences, Godollo.
(STREPTOMYCES)

TOROK, Gabor; CSABA, Gyorgy; HORVATH, Janos

Effect of heparin on the frequency of mutations induced on
Streptomyces. Biol kozl 10 no.1:51-57 '62.

1. Agrartudományi Egyetem Mikrobiológiai Tanszék, Godollo. Tan-
szekvezeto: Dr.Janos Horvath egyetemi tanar, es Budapesti Or-
vostudományi Egyetem Szovettani es Fejlodestani Intezet.
Igazgato: R. Imire Toro egyetemi tanar, akademikus. 2. Biológiai
Kozlemenyek" szerkeszto bizottsagi tagja (for Horvath).

*

L 47277-66

ACC NR: AP6034677

SOURCE CODE: HU/0014/65/098/009/0385/0391

HORVATH, Janos, Diplome Metallurgical Engineer, of the Directorate for
Ferrous Metallurgy (Vaskohazati Igazgatóság) and

SZUCS, Ambrus, Technician, of the Metallurgical Works (Kohászati Üzemek)
in Ozd.

"Evaluation of Various Binders Added to Sintering Mixes of Ores"

Budapest, Kohászati Lapok, Vol 98, No 9, Sep 1965, pp 385-391.

Abstract: Vinyl polymer, polyacrylamide, bentonite, red sludge from alumina manufacture, sludge from furnace-gas washing, manganese sludge from the enriching of manganese-bearing ores, carbide-lime, and lime were investigated as to their ability to improve the pellets in sintering mixtures and as to the optimum ratio of admixture. The details of the experimental studies, presented in detail, indicated that the sludges and limes performed best under a variety of conditions; however, some of the others also performed well under specific conditions of use.

Orig. art. has: 7 figures, 2 formulas and

4 tables. [JPES]

TOPIC TAGS: metallurgic research, vinyl plastic

SUB CODE: 11 / SUBM DATE: none / OTH REF: 001

Card 1/1

DOC: 622.78:646.9

L 46893-66 EWP(e)/EWP(v)/EWP(j)/T WJ/RM/WH

ACC NR: AP6034300

SOURCE CODE: HU/0014/66/000/005/0204/0211

HORVATH, Janos, Diplomate Metallurgical Engineer, of the Directorate for Ferrous Metallurgy (Vaskohaszati Igazgatóság), and SZUCS, Ambrus, of Ozd Metallurgical Works (Ozdi Kohászati Üzemek) in Ozd.

28
E

"Effect of Binders on the Process and Economy of Ore Sintering"

Budapest, Kohászati Lapok, Vol 99, No 5, May 1966, pp 204-211.

Abstract: The purpose of this article is to provide additional data on the effects of various binders on the formation of raw pellets and on the binding performance of these binders in such pellets. The initial data were presented Ibid., 1965, No 9 [volume number and page numbers not given]. This paper discusses the effects of the binders on the sintering process, productivity, strength of pellets, and manufacturing economy. The relevant data for vinyl polymer, polyacrylamide, bentonite, red sludge, furnace gas washing sludge, furnace gas washing sludge plus calcined lime, manganese sludge, carbide lime, hydrated lime, and calcined lime binders were presented and discussed. Each binder was assessed at to its overall performance in terms of the factors investigated.

Orig. art. has: 7 figures and 2 tables. [JPRS 36,867]

TOPIC TAGS: vinyl plastic, sintering

SUB CODE: 11 / SUBM DATE: none

Card 1/1 fv

0920 0081 UDC: 669.162.1:662.78:669.162.27

HORVATH, Janos

Problem of the entropy growth. Magyar fizikai folyoir 13 no.1:19-46 '65.

1. Institute of Theoretical Physics of Attila Jozsef University, Szeged.

HORVATH, Janos

Remarks about the theory of the absorption and emission spectra of fluorescent molecules. Magy fiz folyoir 13 no.2:195-206 '65.

1. Institute of Theoretical Physics of Attila Jozsef University, Szeged. Submitted September 6, 1964.

HORVATH, Janos

Dispersion relations in classical physics. Fiz szemle 15
no.1:7-16 Ja '65.

1. Institute of Theoretical Physics of Attila Jozsef University,
Szeged, and Editorial Board Member, "Fizikai Szemle."

HORVATH, Janos, dr.

Genetic effects of the heterokaryosis of Streptomyces. Elovilag
6 no.5:7-12 S-0 '61.

*

HORVATH, Janos, dr., egyetemi tanar

Newer aspects of the variability of fungi pathogenic for plants.
Elovilag 8 no.2:30-37 Mr-Ap '63.

HORVATH, Janos, okleveles gépészmérnök, kazanbiztos

Most recent experimental results in the natural water circulation of high-pressure boilers. Energia és atom 17 no. 2: 81-84 F '64.

1. Hőtechnikai Kutató Intézet.

HORVATH, Janos, okleveles gépészmernok, kabanbiztos

Combined computation of radiator grille systems in furnaces
with natural water circulation. Energia es atom 18 no.2/3:
102-103 F-Mr '65.

HORVATH, Jeno, bolsoepitosz

An exhibition of apartment living, Berlin, 1962. Faipar 13
no.1:9-12 Ja '63.

1. Faipari Gyartastervezo Iroda.

KERTAY, Nandor, dr.; VEN, Ferenc, dr.; HORVATH, Jozsef, dr.

Isolation of Mycobacterium tuberculosis bovin in human tuberculosis
in the Kiskoros Region. Nepegeszsegugy 42 no.2:41-43 F '61.

1. Kozlemený az Orszagos Koranyi Tbc. Intezet (igazgato-foorvos:
Boszormenyi Miklos dr. kandidatus, tudomanyos vezeto: Foldes Istvan
dr. kandidatus) mikrobiologiai osztalyarol (vezeto: Kertay Nandor
dr. kandidatus), a kiskorosi jarasi tbc. gondoza intezetbol
(vezeto: Ven Ferenc dr. foorvos) es a jarasi allarovesi invatalbol
(vezeto: Horvath Jozsef dr. foallatorvos).
(MYCOBACTERIUM BOVIS)

PETRANYI, G.; HORVATH, J.

The significance of bronchoscopy in the differential diagnosis of bronchoadenitis tuberculosis complications. *Gyermekegygyaszat* 4 no.5: 137-148 May 1953. (CML 25:1)

1. Doctors. 2. Children's Tubercular Home and Therapeutic School (Head Head-Physician -- Prof. Dr. Gyozo Petranyi) of Fourth District Metropolitan General Hospital (Director - Head Physician -- Dr. Rudolf Devenyi).

1124 ... 11. 10. 1957
HORVATH, Ferenc; HORVATH, Jozsef

Clinically cured case of slightly differentiated spindle cell bone sarcoma. Magy. radiol. 9 no.4:224-228 Dec 57.

1. Budapesti Orvostudományi Egyetem Röntgenklinikájának Közleménye
Igazgató; Ratkocz Mándor egyetemi tanár.

(SPINE, neoplasms

spindle cell sarcoma, case report (Hun))

(SARCOMA, case reports

spindle cell sarcoma of spine (Hun))

HORVATH, Ferenc, dr.; HORVATH, Jozsef, dr.; ERDOS, Bela, dr.

The significance of ureteral dislocation in the diagnosis of retro-peritoneal lymph node metastases. Orv. hetil. 102 no.20:931-933
14 My '61.

1. Budapesti Orvostudományi Egyetem, Röntgenklinika.

(RETROPERITONEAL SPACE neoplasms)
(LYMPH NODES neoplasms)
(URETER pathology)

HUNGARY

HORVATH, Jozsef, Dr; Hospital of the Megye Council of Hajdu-Bihar, Urological Ward (chief physician: DIOSZEGHY, Gyorgy, Dr) (A Hajdu-Bihar Megyei Tanacs Korhaza, Urologiai Osztaly).

"Urethral Stones of the Male in General, in Connection With a Case of an Unusually Large Stone Located Dorsally."

Budapest, Magyar Sebeszet, Vol XVI, No 5, Oct 63, pages 330-334.

Abstract: Urethral stones are classified and discussed according to their origin and location, by the author. The symptoms and differential diagnosis are described. The clinical history of a 66 year-old male patient with a fist-sized carbonate stone in the urethra and the surgical and postoperative treatments are described. Of 46 references about two-third are Eastern European, the rest are Western.

1/1

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618210010-2"

H/502/62/031/001/002/002
D409/D301

119100

AUTHORS: Steingaszner, Pál (Budapest) and Horváth, József (Pétfürdő)

TITLE: On hydrotrefining of lubricating-oil fractions

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 31, no. 1-3, 1962, 195-206

TEXT: The High-Pressure Research Institute in Budapest-Pétfürdő has conducted hydrotrefining experiments with furfural-extracted lubricating-oil cuts obtained from sulphur-rich Soviet crude. The tests were made in a 200 ml laboratory reactor over a nickel-molybdenum-alumina catalyst at reaction temperatures of 230 - 410°C and pressures of 20 - 80 atm. It was found that the reaction pressure has no influence on the yield and the quality of hydrogenated products, and that the viscosity, viscosity index, and sulphur content of obtained products depends merely on the reaction temperature. This temperature should not exceed 340 - 360°C to avoid undesired viscosity decrease and formation of light distil-

Card 1/2

On hydrorefining ...

H/502/62/031/001/002/002
D409/D301

lates. The lubricating-oil yield at this temperature range amounts to 95%, the ageing stability is satisfactory, and the oil can be classified as SAE-30. Higher hydrorefining temperatures should only be applied for oil grades where considerably higher viscosity indices are desired. (To attain a viscosity index of 80, the reaction temperature must lie above 370°C, however, the obtained oil can only be classified as SAE-20). The tests also showed that the oxidation stability of the oil increases with decreasing sulphur contents, a result which is in contradiction to the oxidation-inhibiting effect of sulphur compounds as postulated by various authors. Credit is given to Professor M. Freund, E. Vámos, and Gy. Mózes of the MÁFKI Hungarian Crude-Oil and Natural-Gas Research Institute. There are 7 figures and 4 tables. The most recent English-language reference is : Butler, Katzmark, 5th World Petroleum Congress, Sect. III, Paper 11, New York, 1959. ✓

ASSOCIATION: High-Pressure Research Institute, Budapest-Pétfürdő

SUBMITTED: September 15, 1961

Card 2/2

H/502/62/031/001/001/002
D409/D301

AUTHORS: Bánkóvi, Gy., Sarkadi, K., Horváth, J. ^{ref} and Jakob, K.

TITLE: The design and evaluation of diesel-oil desulphurization experiments by mathematical-statistical methods

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 31, no. 1-3, 1962, 23-30

TEXT: The High-Pressure Research Institute in Budapest - Pétfürdő is conducting research on hydrotreating of sulphur-rich diesel-oil cuts obtained from Soviet crude. To facilitate the tedious experiments, the mathematical-statistical method of so-called factorial experiments with partial repetition was used and is described in this article. This widely used method was slightly modified to meet the requirements of experiments aimed at determining the influence of operating conditions on the efficiency of the hydrotreating process. The test results can generally be formulated

$$z = f(u, v, x, y) + \varepsilon_{u, v, x, y}$$

Card 1/3

H/502/62/031/001/001/002
D409/D301

The design and evaluation ...

where $f(u,v,x,y)$ is the systematic influence of operating conditions (pressure, temperature, space velocity, and gas-to-product ratio), and $\epsilon_{u,v,x,y}$ are random variables with expectation zero. Using this mathematical model and some simplifying assumptions (neglect of higher-order interactions), it was possible to reduce hydrorefining experiments from 81, i.e. all possible combinations of the four factors in three levels, to only 36 at an estimated error (block design) of $\pm 4 - 5\%$. The hydrorefining tests proper were performed in a 200 ml laboratory-scale and a 400 l semi-production scale reactor. It was found that the desulphurization efficiency could be increased by raising the reaction temperature (to 360 - 390°C) or pressure, and reducing the space velocity. An optimum desulphurization degree was attained at a gas-to-product ratio of 500 Nm³/m³. There are 2 figures and 1 table. The English-language references are: O. Kempthorne: The Design and Analysis of Experiments. (Wiley, New York) 1952; D.J. Finney: An Introduction to the Theory of Experimental Design. (The University of Chicago Press) 1960; K.A. Brownlee: Industrial Experimentation. 1947.

Card 2/3

The design and evaluation ...

H/502/62/031/001/001/002
D409/D301

ASSOCIATION: Mathematical Institute of the Hungarian Academy of Sciences, Budapest V. Reáltanoda u. 13-15 (György Bánkóvi and Károly Sarkadi): High-Pressure Research Institute, Budapest-Pétfürdő, Lenin ut 91, Hungary (József Horváth and Károly Jakob)

SUBMITTED: September 15, 1961

Card 3/3

KISS, Gyula, fomernok; HORVATH, Jozsef, fofelugyelo

Method for calculating economy at plants preparing homogeneous products. Energia es atom 15 no.1:29-37 Ja '62.

1. Magyar Beruhazasi Bank.

(Hungary—Industrial management)

HORVATH, Jozsef; NOVAK, Mihaly; HIRES, Jozsef

Theoretical studies on the current and potential requirements of cathodic protection on the basis of Pourbaix diagrams. Magyar kem. folyoir 69 no.2:75-81 F '63.

1. Szegedi Tudományegyetem Általános és Fizikai Kémiai Tanszéke.

HORVATH, Jozsef

Viscose rayon fiber yarn produced by the shortened spinning process. Przegl wlokien 14 no.7/8:374-379 J1-Ag '62.

1. Magyar Gyapjufone es Szövägyar, Budapest.

HORVATH, Jozsef, egyetemi tanarseged (Budapest)

Examples in applying materialistic dialectics. Term tud kozl 5
no.6:257-259 Je '61.

KAPOSVARI, Kalman; KEULER, Jeno; BANOCZY, Gyorgy; CSEKE, Lajos;
ARATO, Geza; HORVATH, Jozsef; SEBESTYEN, Endre; BERES, Gyorgy;
KARDOS, Gyorgy

Remarks about Agoston Vecsey's lecture entitled "Production development trends in the Hungarian heavy-current cable and electric line manufacture; cooperation with the Council for Mutual Economic Assistance countries." Villamosag 8 no.2-3: 82-86 F-Mr '60.

1. Koho- es Gepipari Miniszterium Erosaramu Berendezesi Igazgatosag iparagi fomerke (for Kaposvari). 2. Villamosgep- es Kablegyar osztalyvezetoje (for Keuler). 3. Villamosipari Kutato Intezet tudomanyos munkatarsa (for Kardos). 4. EM Szereloipari Tervezo Vallalat; "Villamosag" szerkeszto bizottsagi tagja (for Banoczy). 5. Magyar Elektrotechnikai Ellenorzo Intezet (for Cseke). 6. Transelektro, Kulkereskedelmi Miniszterium (for Arato). 7. Koho- es Gepipari Miniszterium Tervezo Irodai (for Horvath). 8. Vegyimuveket Tervezo Vallalat (for Sebestyen). 9. Kabel- es Sodronykotelgyar (for Beres).

1971 The Role of Sulfate Reduction, and Its Demonstration
in the Soil. A. szulfátréduktáló szerepe és kimutatása
talajban János Bakó, József Horváth, Mihály Solts, and
Károly Vámos Magyar Kertész-Palántász 60 no 3, Mar
1954 p 114-115
Sulfate and sulfate-reducing bacteria in soils 6 ref

HORVATH, Jozsef

4404* Laboratory Investigation of the Corrosive Effect of Various Types of Soils. Különözés talajtípusok korróziós hatásának laboratóriumi vizsgálata. I. Denison-Cell Investigations. Denison-cellas vizsgálatok. (Hungarian.) Mihály Solti and Jozsef Horvath. Magyar kémiai folyóirat, v. 61, no. 12, Dec. 1955, p. 427-437.

Corrosivity of nine different types of soils investigated with steel electrodes in a modified Denison cell. Tables, graphs, micrographs, diagrams. 18 ref. HG ①

HORVATH, Jozsef

Data on the mechanism of anaerobic microbiological corrosion. I.
Interpretation of the effect of sulfate reducing bacteria on the
basis of polarization curves. Magy kem folyoir 68 no.1:5-9 Ja '62.

1. Szegedi Tudományegyetem Általános- és Fizikai-Kémiai Intézete.

(Bacteria, Anaerobic) (Sulfates)
(Corrosion and anti-corrosives)
(Electrochemistry)

HORVATH, Jozsef

Data on the microbiological corrosion mechanism of anaerobic bacteria.II. p_H value of medium, correlations between the precipitation place of solid corrosion products and corrosion velocity in case of iron and steel. Magy kem folyoir 68 no.2:54-59 F '62.

1. Szegedi Tudomanvegyetem Altalanos es Fizikai-Kemiai Intezete.

HORVATH, Jozsef, dr.; NOVAK, Mihaly

Contributions to the mechanism of anaerobic microbiological corrosion.
II. Acta chimica Hung 33 no.2:221-235 '62.

1. Institute of General and Physical Chemistry, University of Szeged,
Rerrich Bela ter.

HORVATH, Jozsef; NOVAK, Mihaly

Data on the microbiological corrosion mechanism of anaerobic bacteria. III. Investigation of reduction-oxidation potentials, p_H and the correlations of the composition of corrosion products by means of Pourbaix diagrams. Magy kem folyoir 68 no.2:60-65 F '62.

1. Szegedi Tudományegyetem Általános és Fizikai-Kémiai Intézete.

HORVATH, Josef; NOVAK, Mihaly

Electrochemical investigation of the corrosion of red copper in aqueous sulfur-hydrogen solutions. I. Interpretation of electrode potential and polarization data on the ground of the equilibrium diagram of the Cu-S-H₂O ternary system potential-
PH. Magy kem folyoir 68 no.5:198-198 My '62.

1. Szegedi Tudományegyetem Általános- és Fizikai-Kémiai Tan-
szaka.

HORVATH, Jozsef, dr., tudomanyos munkatars

Science for increased production in agriculture; some properties
and diagnosis of potato viruses. Term tud kozl 7 no.6:265-268
Ja '63.

1. Novenyvedelmi Kutato Intezet, Keszthely.

ZOMBORI, Janos, tudomanyos fcmunkatars; HORVATH, Jozsef, tudomanyos munkatars

International situation of tractor production and tractor
development. Jarmu mezo gep 11 no.8:296-306 Ag '64.

1. Experimental Institute of Agricultural Machinery, Budapest.

HORVATH, Jozsef, dr.

On urethral calculi in the male in general, apropos of an exceptionally large calculus in the distal urethra. Magy. sebesz. 16 no.5:330-334 0 '63.

1. A Hajdu-Bihar Megyei Tanacs Korhaza Urologiai Osztalyanak (foorvos: Dioszeghy Gyorgy dr.) kozlemenye.

(URETHRA) (URINARY CALCULI)
(DIAGNOSIS, DIFFERENTIAL)
(PROSTATIC NEOPLASMS)
(SURGERY, OPERATIVE) (UROGRAPHY)

HUNGARY

HORVATH, Jozsef, Dr, NOVAK, Mihaly, HIRES, Jozsef, Dr; Institute of General and Physical Chemistry, The University, Szeged [original language version not given].

"Theoretical Studies on the Potential and Current Requirements of Cathodic Protection on the Basis of Pourbaix Diagrams."

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 38, No 2, 1963, pages 151-165.

Abstract: [English article, authors' English summary modified] The potential and current requirements of cathodic protection in soils and natural waters with different chemical compositions have been demonstrated on the basis of potential-pH equilibrium diagrams using the systems Fe-H₂O, Fe-S-H₂O and Fe-H₂CO₃-H₂O. It was concluded that in aqueous media which contain no complex forming agents or anions which may form solid salts with the metal to be protected, the protective potential -0.85 V (against Cu/CuSO₄ reference electrode) generally accepted in practice, may be quite sufficient. In aqueous media which contain Ca and Mg bicarbonates, cathodic polarization promotes the formation of a solid protective layer, mainly consisting of Ca, Mg and Fe carbonates, which decreases current requirements. In soils and waters which contain hydrogen sulfide, however, more negative protective potentials are necessary. In soils which contain sulfate-producing bacteria, a protective potential of -0.95 V may be sufficient, in aqueous solutions saturated with hydrogen sulfide, however, potential requirements are much higher. Potential and current requirements of cathodic protection are also demonstrated on schematic polarization diagrams. 19 Western, 2 Hungarian references.

NOVAK, Mihaly; HORVATH, Jozsef; HIRES, Jozsef

Remarks about the calculating method for corrosion velocity developed by Holler, Scherdtfeger and McDorman. Magy kem folyoir 69 no.4:175-176 Ap '63.

1. Szegedi Tudományegyetem Általános- és Fizikai-Kémiai Tanszéke.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618210010-2"

HORVATH, Dr. Jozsef, Department of Urological Surgery (Onkológiai Osztály) (Chief Physician: Dr Gyorgy DIOSZEGHY) of the Hajdu-Bihar Megye Council Hospital (Hajdu-Bihar Megyei Tanács Kórháza) (Director: Dr Geza MANYI), Debrecen.

"Evaluation of Perineal Prostate Needle Biopsies"

Budapest, Magyar Sebeszet, Vol 19, No 3, Jun 66; pp 203-207.

Abstract: Perineal needle biopsy was performed in 60 cases of prostate disease. The method is simple, free of complications, and recommended for the diagnosis of prostate diseases. The biopsy was carried out with a Vim-Silverman type needle; in cases of suspected tumors the diagnosis is 43.8% certain. (47 References, predominantly Western).

BENYOVSZKY, Moric, fotechnologus; DERY, Ferenc; SZASZ, Jozsef;
HORVATH, Jozsef; KAIMAN, Lajos; SARI, Vince

Prevention of foundry hazards by technological measures.
Koh lap 96 no. 5: Supplement: Ontode 14 no. 5: 106-112
My '63.

1. KGMTI (for Benyovszky).

MATHE, Gyorgy, okleveles gepeszmernok; HORVATH, Jozsef; HIRSCH,
Lajos; ROTH, Kalman

Some questions relating to the ventilation and dust extraction
in foundries. Koh lap 96 no. 6; Suppl. Ontode 14 no. 6; 128-136
Je '63.

1. Designing Offices of the Ministry of Metallurgy and Machine
Industry, Budapest.

NOVAK, Mihaly; HORVATH, Jozsef

Remarks about the methods of Schwerdtfeger and Stern for corrosion rate determination. Pt.2. Magyar kem. folyoir 70 no.10:453-457 O '64.

1. Chair of General and Physical Chemistry, Attila Jozsef University, Szeged.

HORVATH, J.

"Successful Introduction of F-5 in Varpalota Mines." p. 14

"Cycle Norm, Cycle Graph." p. 14

"Smelter Innovators Make a Pledge." p. 15

"Contest for the Title 'Best Innovator of the Enterprise.'" p. 15

"Diary of Innovations." p. 16

(Ujitok Lapja. Vol. 5, no. 5 Mar. 1953 Budapest.)

Vol 3. no. 6

SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

HORVATH, J.

"This is how the Soviet loader BCS-1 helps our miners" p. 11, "Metal shaving contest at Diosgyor" p. 11, "Two successful experience-exchange introductions in the building industry" p. 12, (UJITCK LAPJA, Vol. 5, no. 7, April 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L. C., Vol. 2, No. 7, July 1953, Uncl.

HORVATH, J.

"Measuring mine props with special attention to closed arches." *Bányászati Lapok*, Budapest, Vol. 9, No. 5, May 1954, p. 238.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

HORVATH, J.

"Innovators in the battle for coal", p. 6

"Results This Year in the Duclos Mining Machinery Plant", p. 8

"A New Industrial Branch Emerges; Peat Production", p. 8

"The Planning of Tasks in Komlo", p. 9

"Innovation Work of Mining Planners", p. 9 (UJITOK LAPJA, Vol. 6, no. 3, Feb. 1954, Budapest, Hungary).

Source: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

HORVATH, J.

HORVATH, J. Conference on technological development of coal mining. p. 13
Vol. 7, no. 17, Sept. 1955. UJITOK LAPJA. (Orszagos Talalmanyi
Hivatal) Hungary.

Source: East European Accessions List (EEAL), Library of Congress Vol. 5,
no. 6, June 1956

HORVATH, J.

National conference on coal mining. p. 8.
Innovators invited to lead in the liberation contest. p. 9.
Principal tasks of innovation in the electric power industry. p. 11.
Development of our electric technical experts. p. 12.
MIFOL LAJKA, Budapest, Vol. 7, no. 1, Feb. 1955.

SO: Monthly List of East European Accessions, (EEML), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

HORVATH, J.

From the first battle for coal to the new battle for coal. p. 3.
UJIFOK LAPJA, Budapest, Vol. 7, no. 14, July 1955.

SO: Monthly List of East European Accessions, (SEAL), L3, Vol. 4, no. 10, Oct. 1955,
Uncl.

HORVATH, Jozsef, dr., Min. Eng.

Influence of surface loads on underground supports. Izvestia Bany
KI no.5:67-74 '61.

HORVATH, Jozsef, okl.banyamernok

Development of steel ring support system in Hungary.
Bany lap 94 no.12:804-810 D '61.

1. Banyaszati Kutato Intezet, Budapest.

HORVATH, Jozsef, okleveles banyamernok

Calculation of the load capacity of surface foundations affecting the safety of the work. Bany lap 96 no.3:145-152 Mr '63.

1. Banyaszati Kutato Intezet osztalyvezetöje, Budapest.

HORVATH, J.; Tobisch, F.; VARGA, P.

An interesting fault of viscose fiber. p. 161.

MAGYAR TEXTILTECHNIKA. (Textilipari Műszaki és Tudományos Egyesület)
Budapest, Hungary. Vol. 11, 4, Apr. 1959.

Monthly List of East European Accessions (EMAI) LC, Vol. 8, no. 2, July 1959.
Uncl.

HORVATH, J.

"Determination of wool fineness by lanameter type 2-12-1/b." In English
p. 115.

PERIODICA POLYTECHNICA. (Budapesti Muszaki Egyetem) Budapest, Hungary
Vol.3, No. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959
Uncl.

HORVATH, Jozsefne, okl. gepeszmernok; MOHR, Ferenc, okl. vegyeszmernok

Experiences of lubricating viscose fibers in spinning mill. Magy textil
13 no.5:203-208 My '61.

1. Magyar Gyapjufono es Szovogyar.

HORVATH, Jozsefne

Application of radioactivity in the textile industry. Magy textil 13
no.6:230-233 Je '61.

HORVATH, Jozsef

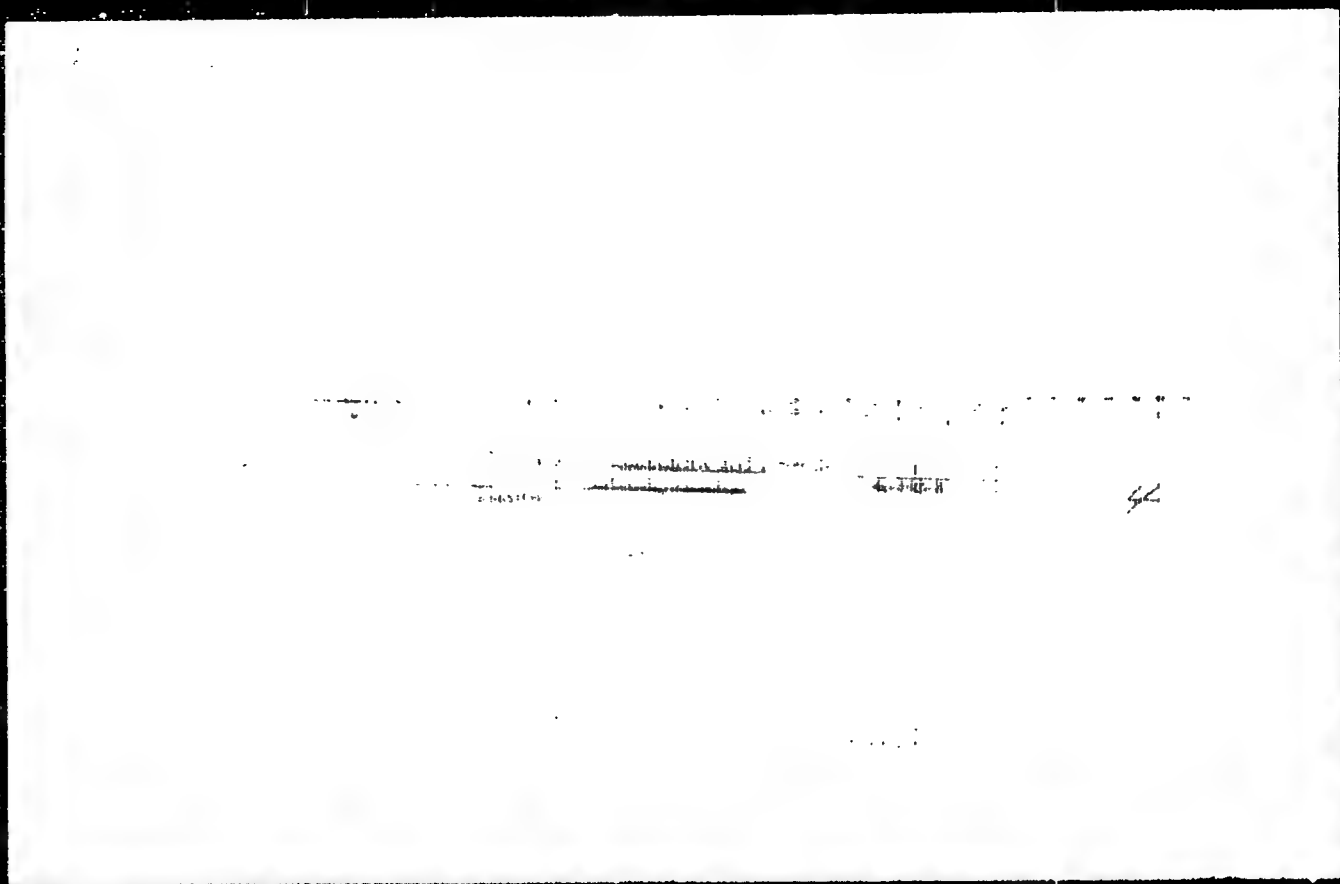
Experimental spinning on the Sant Andrea worsted-ring spinning machine. Magy textil 14 no. 2:66-72 F '62.

1. Textilipari Kutató Intézet.

HORVATH, Jozsefne, okleveles gepeszmernok

Application of isotopes in the analysis of textile materials.
Magy textil 15 no.11:514-517 '63.

PROCESSING AND PROPERTIES INDEX	
2	<p>The theory of mixed crystals. István Nárá-Szabó and J. L. Horváth. <i>Hung. Acta Chim.</i> 1, No. 3, 34-40 (1948). The lattice energy and lattice const. of the mixed crystals NaCl-NaBr were calcd. by use of the Born-Mayer formula. Only 2 constants (the mol. vol. and the compressibility of the mixed crystals) were necessary. The latter is obtained by linear interpolation on the basis of the compressibility values of the pure crystals. The results differed by 0.01-0.05% from those of Born and Mayer, and of Mayer and Helmholtz in case of lattice const. and by somewhat more in case of lattice energy. The calcd. lattice energy of the mixed crystal was somewhat lower than that of the pure salts. István Földi</p>
<p>450-55.4 METALLURGICAL LITERATURE CLASSIFICATION</p>	



the theoretical treatment of the problem. The results of the calculations are presented in the form of graphs and tables. The calculations show that the change in the frequency of the oscillations of the pendulum is proportional to the square of the amplitude of the oscillations of the pendulum. The results of the calculations are in good agreement with the experimental data.

ASYMPTOTIC SOLUTION OF THE FUNDAMENTAL EQUATION OF THE QUANTUM MECHANICAL ATOM THEORY. J. I. HORVATH (Univ. Debrecen, Hungary). *Nature* 161, 20-7 (1948). Math. An asymptotic method is proposed for the solution of the fundamental equation of the modified theory having no solution in terms of elementary functions. The method yields a very good approximation, especially in the exterior parts of the atom. Frank Conet

CA

aryana: the theoretical treatment of ammonium. II
J. T. Horváth (Univ. Debrecen, Hung.). *J. Chem. Phys.*
19, 978(1951); cf. *C.A.* 42, 8006c. Errors in calcn. are
corrected. The neutral NH₃ mol. has a nonbonding state
and is unstable. T. H. Dunkelberger

CP

*General & Physical
Chem--2*

Calculation of the polarization energy of hydrogen halide molecules. J. I. Hlaváček (Univ. Debrecen, Hung.). *Z. Physik*, 132:~868-871(1952).—The method of Gombás and Neugebauer (*C.A.* 29, 2007^s) was improved by calcg. the polarization energy of the mol. by adding the polarization energies of the sep. closed electron shells of the halogen anion. For HCl the calcd. disson. energy is 12.975 e.v., while the empirical value is 14.19 e.v.; the calcd. equil. nuclear distance is 1.3750 Å., while the spectroscopic value is 1.3154 Å.

James I. Lauer

MORVATH, J'NOS

2

3472. Numerical Calculation of Excitation Energy. Mag
Journal of Polymer Science: Polymer Chemistry Edition.
John Wiley & Sons, New York. v. 1, 1963, p. 19-26.
Contributions are suggested for the Lennard-Jones method.
Application to calculation of binding energy of HCl. Table
1.



HUNG.

5501

6898. The equations of motion of the electron
J. L. HOSVATH. Note in *Acta phys. Hungar.*
No. 3-4, 471-494 (1954) in German.

The electron is treated classically and relativistically. A tensor is formed to take account of the spin (and the velocity-dependent electric dipole) of the electron. The Lagrangian and equations of motion are obtained and the Riesz method and potential are employed. The Lienard-Wiechert potential and the potential arising from the magnetic moment of the electron are obtained. The calculation of the self-force is discussed briefly.

35

24

G. F. CROWN

HORVATH, J. I.

HUNG.

530.145
8921. Remarks on the solution of the Schrödinger
equation by a variational procedure. J. I. HORVATH.
Note in *Acta phys. Hungar.*, 3, No. 3-4, 925-7 (1954)
in German.

The deviations of the eigenfunctions obtained in
atomic problems from the true eigenfunctions are
discussed. Since the true functions are not known,
Hartree-Fock functions must be used in their place
in this comparison. The deviation of the potential
occurring in the equation for the variational function
from the true atomic potential, as a function of r ,
can also be used as a criterion for the deviation of the
eigenfunctions.

O. E. BROWN

HORVATH, J. I.

HUNGARY/Theoretical Physics - Classical Electrodynamics. Classical Field Theory. B-3

Abs Jour : Ref Zhur - Fizika, No 4, 1958, No 7569

Author : Horvath, J. I.

Inst : University of Szeged, Hungary

Title : The Bilocal Generalization of the Schroedinger-Gordon Equation

Orig Pub : Acta phys. et chem., 1955, 1, No 1-4, 25-28

Abstract : The author discusses the concept of the bilocality in classical field theory. From the variational principle with a bilocal Lagrangian function he obtains a relativistically-invariant bilocal Schroedinger-Gordon equation.

Card : 1/1

HORVATH, J.

Horvath, J. I. Contribution to the final affine field law.
 Acta Mathematica, vol. 101, no. 1, pp. 151-155 (1958).

The transformation

$$(1) \quad {}^*F_{ab} = F_{ab} + 2\delta_{ab}\rho_c$$

preserving parallelism yields

$$(2) \quad (n-1)\rho_a = \Gamma^b{}_a \lambda_b$$

for

$$(3) \quad {}^*\Gamma^a{}_b \lambda_a = 0$$

so that one obtains for the corresponding contracted curvature tensor F_{ab} the Schrödinger formula

$$(4) \quad R_{ab} = {}^*R_{ab} - F_{ab}$$

with F_{ab} proportional to $\partial_a \rho_b$. In the last section the author expresses the opinion that "the equations of motion in their parameter invariant form must be invariant against changes of the affinities which preserve the parallelism" (cf. A. Einstein, *Lehrbuch der Relativitätstheorie*, physicien et penseur, Editions Albin Michel, Paris, 1953, pp. 337-342, MR 16, 634, and H. Havrda, *International Mathematical Monthly*, 3, 645-680 (1954), MR 16, 408). (J. Hascall, Bloomington, Ind.)

Category : HUNGARY/Theoretical Physics - Classical Electrodynamics

B-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 2926

Author : Horvath, Janos

Title : Equations of Motion of the Electron

Orig Pub : Magyar tud. akad. mat. es. fiz. oszt. kozl. 1955, 5, No 4, 411-450

Abstract : No abstract

Card : 1/1

HORVATH, J.

Gamma spectroscopy. p. 131. FIZIKAI SZEMLE. (Eotvos Lorand Fizikai
Tarsulat) Budapest. Vol. 5. no. 5, Oct 1955.

Source: EEAL - LC Vol 5, No. 10 Oct. 1956

HORVATH J I

Horvath, J. I. On the theory of the electromagnetic field
in moving dielectrics. Bull Acad Polon Sci Cl III
1949 452-457

Horvath sets up a variational principle for Maxwell's
equations in the presence of matter using the polarization
density as the primary quantity. He then shows that the
energy-momentum tensor follows from this variational
principle and the energy-momentum tensor is defined
as the variation of the energy-momentum with respect to
the metric. He also states that the energy-momentum
tensor satisfies the conservation laws. He also shows that the
conservation laws follow from the variation of the action.

1-F W

890 12
OF THE THEORY OF THE ELECTROMAGNETIC FIELD
AND THE DIRECT EFFECT OF THE FIELD
ON THE POLARIZATION OF THE FIELD (1956).
A new relativistic Lagrangian is given for the field in interaction
with a charged matter. It leads to the Abraham rather than to the

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618210010-2

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 09-21-2001 BY 60322 UC UAL/ST

176

1

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618210010-2"

HUNGARY/Electricity - General

G-1

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1138

Author : Horvath J.I., Hyulai J.
Inst : The University, Szeged, Hungary
Title : Conservation Laws of Electromagnetic Field in Moving Dielectrics.

Orig Pub : Acta phys. et chem. Szeged, 1956, 2, No 1-4, 39-48

Abstract : The field equations in moving bodies are considered. A conservation law is derived for the electromagnetic field in a moving dielectric. The problem of the energy-momentum tensor of the electromagnetic field is again examined.

Card : 1/1

38

New theorem in affine space theories. p. 105.
MAGYAR FIZIKAI FOLYOIRAT. (Magyar Tudományos
Akademia) Budapest. Vol. 4, no. 2, 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1956

HORVATH, J.; MOOR, A.

Theory of space based on the general metric spaces of elementary particles.
p. 53. Vol. 6, no. 1, 1956 KOZLEMEYEI Budapest, Hungary

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

HORVATH, J. I.

Hungary Electricity - General

G-1

Abs Jour : Ref Zhur - Fizika, No 1, 1959, No 1139

Author : Horvath J.I., Gyulai J.
Inst : The University, Szeged, Hungary
Title : Appendix to the Paper "On the Conservation Laws for the Electromagnetic Field in Moving Dielectrics".

Orig Pub : Acta phys. et chem. Szeged, 1957, 3, No 1-4, 33-34

Abstract : Supplementing the article by the same authors (see Abstract 1138), it is proven that the form of the radiation tensor proposed by Beck and March are equivalent.

I. Fisher

Card : 1/1

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618210010-2"

HUNGARY/Theoretical Physics - Classical Electrodynamics. Classical Theory of Fields.

Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 19626

Author : Horvath J.I., Vasvari B.
Inst : University of Szeged, Szeged, Hungary
Title : Generalized Linear Electrodynamics.I.

Orig Pub : Acta phys. Acad. sci. hung., 1957, 7, No 3, 277-288

Abstract : It is noted that in electrodynamics with higher derivatives, in the Podolsky formulation (Podolsky B., Schwed Ph., Reviews of Modern Physics, 1948, 20, 40) a difficulty arises in quantization, owing to the vanishing of the time component of the generalized momentum of the field. The authors propose a new expression for the Lagrangian function of the free field, at which all the momenta of the field are finite, and the field equations are obtained in the form of generalized wave equations without using the supplementary Lorentz condition. The canonical formalism of the theory is developed in detail, as are the derivations for the expressions for

Card : 1/2

HUNGARY/Atomic and Molecular Physics - Statistical Physics.
Thermodynamics.

D

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22372

Author : Horvath, Janos

Inst : ~~Central Research Institute for Physics, Budapest~~

Title : Fifty Years of the Langevin Equations; the Principal
Equation for the Dynamics of Molecular Processes

Orig Pub : Fiz. szemle, 1958, 8, No 10, 303-305

Abstract : No abstract.

Card 1/1

HORVATH, Janos

Degrees of inner liberty of physical spaces and geometrical interpretation of the isobar spinter. *Magy fiz folyoir* 9 no.6:429-475 '61.

1. Szegedi Tudományegyetem Elméleti Fizikai Intézete, Szeged.

(Spaces, Generalized) (Particles)
(Horvath, Janos)

HORVATH, Janos

Electromagnetic measuring systems. Fiz szemle 11 no.10:295-299 0 '61.

1. Szegedi Tudományegyetem Elméleti Fizikai Intézete.

HORVATH, J. I.

"Introduction to mechanics, matter and waves" by Uno Ingard and William L. Kraushaar. Reviewed by J. I. Horvath. Acta phys Hung 13 no.3:367 '61.

HORVATH, J.I.

Space-time structure and mass spectrum of elementary particles.
Acta phys Hung 16 no.2:77-92 '63.

1. Department of Theoretical Physics, University of Szeged,
Szeged. Presented by A. Konya.

HUNGARY

HORVATH, Judit, E.; FONYODI, Tivadar; Capital City Laszlo Hospital, General Laboratory (Fovarosi Laszlo Korhaz, Kozponti Laboratorium)

"New Indicator for the Mercurimetric Chloride Determination in Biological Fluids."

Budapest, Ujseleles Orvostudomany, Vol XIV, No 6, 1962, pp 665-668.

Abstract: [Authors' summary modified] The advantage of this method over the more generally used Volhard Mohr method is the elimination of deproteinization, filtering, cooking. It is fast, accurate and not light sensitive. No interference is found by ions present in the fluid with the potassium iodate endpoint. The described mercurimetric method is suitable for serum, liquor and urine chloride determinations. If one considers the chemical reaction, this method is more realistic and the results are closer to actual values- according to the authors.

[3 Soviet-bloc, 3 western references]

1/1